

Full credit on Confidence interval problems:

- 1) Conditions stated & checked (3 pts)
- 2) State:
"Conditions met, use Normal Model for 1 prop Z Int" (2 pts)
- 3) Formula with numbers in it (2 pts)
- 4) Interval (a, b) (1 pt)
- 5) Sentence interpretation (2 pts)

EXAMPLE: #24 from HW

STATE

- SRS
- $np \geq 10$
- $nq \geq 10$
- $pop \geq 10n$

CHECK

- assumed representative
- $(207)(0.2367) \geq 10$
- $(207)(0.7633) \geq 10$
- There are more than 2070 pregnant women under 40

Conditions met --> Normal Model --> 1 prop Z-Int

$$0.2367 \pm 1.645 \sqrt{\frac{p(1-p)}{n}} = (0.18812, 0.28531)$$

We are 90% confident that the true % of live births is between 18.812% and 28.531%.

